

Emissions Inventory EXAMPLE: Natural Gas Boilers and Heating Equipment**General Process Form 1999**

Permit number(s) _____

1- Process ID 12- Process Type/Description: 3 boilers & 1 water heater, each rated less than 10,000,000 Btu/hr

3- Stack ID(s) (only if required on Stack Form) _____

4- Process TIER Code: 020301 FUEL COMBUSTION NATURAL GAS5- SCC Code 10200603 (8 digit number) INDUSTRIAL NATURAL GAS COMBUSTION < 10 MMBTU/HR6- Seasonal Throughput Percent: Dec-Feb 25 % Mar-May 25 % Jun-Aug 25 % Sep-Nov 25 %7- Normal Operating Schedule: Hours/Day 18 Days/Week 6 Hours/Year 56168- Typical Hours of Operation (military time) Start 0600 End 23599- Emissions based on (name of material or other parameter) e.g. "rock", "diesel", "vehicle miles traveled") natural gas10- ☒ Used (input) or ☐ Produced (output)11- Annual Amount (a number) 25,00012- Unit of Measure (for example: tons, gallons, 1000 cu ft, acres, units produced, etc.) therms13- Unit Conversion Factor (if needed to convert Unit of Measure to correlate with emission factor units, see Attachment 5) 0.0000952

Emission Factor (EF) Information					Control Device Information					
14	15	16	17	18	19	20	21	22	23	24
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture% Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	84	1b/MMCF	No	6						200 lb
NOx	100	1b/MMCF	No	6						238 lb
PM10	7.6	1b/MMCF	No	6						18 lb
SOx	0.6	1b/MMCF	No	6						1 lb
VOC	5.5	1b/MMCF	No	6						13 lb

NOTE: This is most common natural gas equipment type. Codes on lines 4 and 5 and EFs in column 15 are suitable for this size equipment (NOT Engines). Emissions are calculated as follows:

Annual amount (line 11) × unit conversion factor (line 13) × EF (col. 15) = col. #24, Estimated Pollutant Emissions

Example for CO: 25,000 therms × 0.0000952 MMCF/therm = 2.38 MMCF × 84 lb/MMCF = 200 lb. CO emissions

***Calculation Method Codes**

- 1 = Continuous Emissions Monitoring Measurements
- 2 = Best Guess/ Engineering Judgment
- 3 = Material Balance
- 4 = Source Test Measurements (Stack Test)
- 5 = AP-42/ FIRE Method or Emission Factor
- 6 = State or Local Agency Emission Factor
- 7 = Manufacturer Specifications

****Control Efficiency Reference Codes**

- 1 = Tested efficiency / EPA reference method
- 2 = Tested efficiency / other source test method
- 3 = Design value from manufacturer
- 4 = Best guess / engineering estimate
- 5 = Calculated based on material balance
- 6 = Estimated, based on a published value